IN THE CLAIMS

1.   (currently amended) An information processing apparatus for communicating wirelessly with an administrative system and for transmitting data to another ~~second~~ information processing apparatus via said administrative system, said information processing apparatus comprising:

communicating means for transmitting data to said administrative system and for transmitting or receiving information for controlling the wireless communication with said administrative system;

measuring means for measuring a reception level of said information or ~~of~~ said data being received by said communicating means; and

controlling means for controlling transmission power in a manner allowing said communicating means to transmit said information or said data;

wherein said controlling means compares a data length of the data with a threshold value,

if the data length is not greater than the threshold value, said controlling means controls said transmission power such that the data is transmitted at a maximum controllable transmission power level or at a first transmission power level close to the maximum controllable transmission power level, and

if the data length is greater than the threshold value, said controlling means controls said transmission power ~~in~~ such ~~a manner~~ that a first item of said information signaling a start of transmission of said data is transmitted at ~~a~~ the maximum controllable transmission power level or at ~~a~~ the first transmission power level, ~~close to said maximum controllable transmission power level;~~ and ~~wherein,~~ if a second item of said information is transmitted by said administrative system based on the

6

first information item to enable the start of transmission of said data and is received by said communicating means, ~~then~~ said measuring means measures a reception level of the second information item and said controlling means controls the power for transmitting said data based on said reception level measured by said measuring means.

2.   (currently amended) The information processing apparatus according to claim 1, further comprising a plurality of amplifying means for amplifying a signal level for transmitting said first information item or said data; wherein said plurality of amplifying means amplify said signal level at different amplification factors,~~,~~ and ~~wherein~~ said controlling means controls said power for transmitting said first information item or said data by selecting any one of said plurality of amplifying means.

3.   (cancelled)

4.   (currently amended) The information processing apparatus according to claim 1, wherein the communication with said administrative system is carried out according to IEEE 802.11 standards, and ~~wherein~~ said first information item is an RTS frame and said second information item is a CTS frame.

5.   (currently amended) An information processing method for use with an information processing apparatus for communicating wirelessly with an administrative system and for transmitting data to ~~a second~~ another information processing apparatus via said administrative system, said ~~information processing~~ method comprising ~~the steps of~~:

comparing a data length of the data with a threshold value;

if the data length is not greater than the threshold value, controlling transmission power such that the data is transmitted at a maximum controllable transmission power

level or at a first transmission power level close to the maximum controllable transmission power level; and

if the data length is greater than the threshold value,

firstly controlling transmission power ~~in~~ such a ~~manner~~ that first information signaling a start of transmission of said data is transmitted at ~~a~~ the maximum controllable transmission power level or at ~~a~~ the first transmission power level ~~close to said maximum controllable transmission power level~~, ~~;~~

controlling reception of second information transmitted by said administrative system based on said first information, said second information enabling the start of transmission of said data, ;

measuring a reception level of said second information, ~~;~~ and

secondly controlling transmission power ~~in~~ such a ~~manner~~ that said data is transmitted at a transmission power level based on said reception level of said second information measured in said measuring step.

6.   (currently amended) A   ~~recording~~   computer-readable medium which stores a program ~~in a manner readable by a computer, said program causing said computer to execute~~ having instructions for carrying out a ~~process~~ method of allowing an information processing apparatus to communicate wirelessly with an administrative system and to transmit data to ~~a second~~ another information processing apparatus via said administrative system, said ~~program~~ method comprising ~~the steps of~~:

comparing a data length of the data with a threshold value;

if the data length is not greater than the threshold value, controlling transmission power such that the data is transmitted at a maximum controllable transmission power

level or at a first transmission power level close to the maximum controllable transmission power level; and

if the data length is greater than the threshold value,

firstly controlling transmission power ~~in~~ such a ~~manner~~ that first information signaling a start of transmission of said data is transmitted at ~~a~~ the maximum controllable transmission power level or at ~~a~~ the first transmission power level ~~close to said maximum controllable transmission power level~~,~~;~~

controlling reception of second information transmitted by said administrative system based on said first information, said second information enabling the start of transmission of said data,~~;~~

measuring a reception level of said second information,~~;~~ and

secondly controlling transmission power ~~in~~ such a ~~manner~~ that said data is transmitted at a transmission power level based on said reception level of said second information measured in said measuring step.

7.   (currently amended) A processor encoded with a computer program for ~~causing a computer to execute~~ carrying out a ~~process~~ method of allowing an information processing apparatus to communicate wirelessly with an administrative system and to transmit data to ~~a second~~ another information processing apparatus via said administrative system, said ~~program~~ method comprising ~~the steps of~~:

comparing a data length of the data with a threshold value;

if the data length is not greater than the threshold value, controlling transmission power such that the data is transmitted at a maximum controllable transmission power

9

level or at a first transmission power level close to the maximum controllable transmission power level; and

if the data length is greater than the threshold value,

firstly controlling transmission power ~~in~~ such a ~~manner~~ that first information signaling a start of transmission of said data is transmitted at ~~a~~ the maximum controllable transmission power level or at ~~a~~ the first transmission power level ~~close to said maximum controllable transmission power level~~,;

controlling reception of second information transmitted by said administrative system based on said first information, said second information enabling the start of transmission of said data,;

measuring a reception level of said second information,; and

secondly controlling transmission power ~~in~~ such a ~~manner~~ that said data is transmitted at a transmission power level based on said reception level of said second information measured in said measuring step.

8.   (currently amended) An information processing apparatus for transmitting data to ~~a second~~ another information processing apparatus via administrative system which, upon receipt of first information requesting permission of a start of data transmission, transmits second information enabling the start of the data transmission, said information processing apparatus comprising:

communicating means which receives information from said administrative system and which first designates an address of said information processing apparatus as a receiving address in said second information and controls transmission of said second information, ~~on~~ and then controls transmission~~tting~~ of said data to said ~~second~~

another information processing apparatus~~,~~ ~~transmits said~~ ~~data to~~ via said administrative system ~~after transmission~~ ~~of said second information~~.

9.   (cancelled)

10.   (currently amended) The   information   processing apparatus according to claim 8, further comprising:

measuring means for measuring a reception level of said information received by said communicating means from said administrative system or of said data transmitted by said administrative system to said ~~second~~ another information processing apparatus; and

controlling means for controlling transmission power in a manner allowing said communicating means to transmit said second information and said data;

wherein said communicating means communicates wirelessly with said administrative system,~~,~~ and ~~wherein~~ said controlling means controls transmission power in such a manner that said second information is transmitted at a maximum controllable transmission power level or at a first transmission power level close to said maximum controllable transmission power level, and that said data is transmitted thereafter at a transmission power level based on said reception level measured by said measuring means.

11.   (currently amended) The   information   processing apparatus according to claim 10, further comprising a plurality of amplifying means for amplifying a signal level for transmitting said second information or said data; wherein said plurality of amplifying means amplify said signal level at different amplification factors,~~,~~ and ~~wherein~~ said controlling means controls the power for transmitting said second information or said data by selecting any one of said plurality of amplifying means.

12. (currently amended) The information processing apparatus according to claim 10, wherein said controlling means compares a data length of said data to be transmitted with a threshold value; ~~wherein,~~ if said data length is less than said threshold value, then said controlling means exercises control in such a manner that said data is transmitted at said first transmission power level,~~;~~ and ~~wherein,~~ if said data length is greater than said threshold value, then said controlling means exercises control in such a manner that said data is transmitted at a second transmission power level lower than said first transmission power level.

13. (previously presented) The information processing apparatus according to claim 8, wherein communication with said administrative system is carried out according to IEEE 802.11 standards, and wherein said first information is an RTS frame and said second information is a CTS frame.

14. (currently amended) An information processing method for use with an information processing apparatus for transmitting data to ~~a second~~ another information processing apparatus via administrative system which, upon receipt of first information requesting permission of a start of data transmission, transmits second information enabling the start of the data transmission, said ~~information processing~~ method comprising ~~the steps of~~:

firstly, said information processing apparatus designating an address of said information processing apparatus as a receiving address in said second information and controlling transmission of said second information; and

secondly, said information processing apparatus controlling transmission of said data to said ~~second~~ another information processing apparatus via said administrative system.

15. (currently amended) A ~~recording~~ computer-readable medium which stores a program ~~in a manner readable by a computer, said program causing said computer to execute~~ having instructions for carrying out a ~~process~~ method of allowing an information processing apparatus to transmit data to ~~a second~~ another information processing apparatus via anadministrative system which, upon receipt of first information requesting permission of a start of data transmission, transmits second information enabling the start of the data transmission, said ~~program~~ method comprising ~~the steps of~~:

firstly, said information processing apparatus designating an address of said information processing apparatus as a receiving address in said second information and controlling transmission of said second information; and

secondly, said information processing apparatus controlling transmission of said data to said ~~second~~ another information processing apparatus via said administrative system.

16. (currently amended) A processor encoded with a computer program for ~~causing a computer to execute~~ carrying out a ~~process~~ method of allowing an information processing apparatus to transmit data to ~~a second~~ another information processing apparatus via administrative system which, upon receipt of first information requesting permission of a start of data transmission, transmits second information enabling the start of the data transmission, said ~~program~~ method comprising ~~the steps of~~:

firstly, said information processing apparatus designating an address of said information processing apparatus as a receiving address in said second information and controlling transmission of said second information; and

secondly, said information processing apparatus controlling transmission of said data to said ~~second~~ another information processing apparatus via said administrative system.